What is eduroam?

The University of the Highlands and Islands is a member of the JANET Roaming Service (JRS), which in turn is a member of the eduroam federation - https://www.eduroam.org/

eduroam (education roaming) is the secure, world-wide roaming access service developed for the international research and education community.

The eduroam service provided by JANET in the UK is a federated service that enables JANET connected organisations to offer high quality secure network services for visitors from other eduroam-enabled organisations, without the need for guest account management. In short eduroam allows students, researchers and staff from participating institutions to obtain Internet connectivity across campus and when visiting other participating institutions by simply opening their laptop.

Where can I use eduroam?

Having started in Europe, eduroam has gained momentum throughout the research and education community world-wide and is now available in 67 territories worldwide. Below is a small map of the areas you can use the eduroam service in the UK.
Why use this service?

- All University staff can connect to the internet and many of the University’s IT services use eduroam.
- If you are connecting on the go, the connection will move with you keeping your connection seamlessly between buildings.
- If you lose connection whilst traveling between sites you will automatically be reconnected as soon as you get in range.
- You can connect to the eduroam service run at many other UK and worldwide universities.
- It's free wi-fi that can be accessed on different types of devices e.g. Tablets, Mobile Phones.
- Android Companion Application can be downloaded for mobile devices at:

I have registered to use eduroam, do I need to do this every time?

No, you will only have to do this once. Once you initially set up eduroam, your device will then automatically connect when in range of a wireless access point.

Using eduroam services prerequisites

- You must be registered to use the Wireless Networking Service in the University.
- The institution you are visiting must be a member of the JANET Roaming Service (eduroam).

Before you visit another institution

Before you visit another institution, make sure you configure your device to work with the eduroam wireless network within the University / campus.

If your device can successfully connect to eduroam within the University, you should not need to make any changes to use your device at any other institution that supports eduroam.

Follow the instructions on the next pages to configure eduroam on your device.
How to configure your device

The Following Devices are compatible

Windows 7
Windows 8
iPad
Mac OS X
Android
iPhone
How to configure Android device to use eduroam

1. On your phone, open the 'Settings' menu by pressing on the Settings Icon or pressing menu button then Settings - see screenshots below.

2. Tap the 'Wireless & networks' option (if available) or go to Step 3 - see screenshot below.
3. Ensure that the 'Wi-Fi' option is ‘ticked’ or set to ‘On’, then tap on 'Wi-Fi settings' - see screenshot below.

4. From the list of ‘Wi-Fi’ networks, tap on 'eduroam' and click Connect – see screenshot below.

5. Configure **eduroam settings as per next page**
6. Configure **eduroam** settings below:
   - Ensure that the 'EAP method' is set to 'PEAP'.
   - Set the 'Phase 2 authentication' to 'MSCHAPV2'.
   - Leave the 'User certificate' as '(unspecified)' or blank
   - Enter your identity as: (your username)@uhi.ac.uk - e.g. **9900112@uhi.ac.uk** or **EO00MP@uhi.ac.uk**
   - Leave the 'Anonymous identity' blank.
   - Enter your password and press 'Connect'.

Your phone should now be connected to **eduroam**.
How to configure IPhone device to use eduroam

1. From the 'Settings' menu, select the 'Wi-Fi' option.
2. Ensure that the 'wi-fi' option is set to 'On' - see screenshot below.
3. From the list of networks, select 'eduroam' - see screenshot below.

4. On the 'Enter Password' screen:
   - In the 'Username' box, type: (your username)@uhi.ac.uk - e.g. 9900112@uhi.ac.uk or EO00MP@uhi.ac.uk
   - In the 'Password' box, type your University password and tap 'Join'.

5. Verify that the certificate is from 'eduroam.uhi.ac.uk', and then tap 'Accept' - see screenshot below.

6. Wait while your iPhone connects to eduroam - once connected, a tick appears beside 'eduroam'.
How to configure Windows devices to use eduroam

1. If your device has a switch to enable/disable wireless access, ensure that it is switched to 'enable'.
2. From in the system tray, click on the network icon - see screenshot below.

3. From the list of available networks, click 'eduroam'.
4. Click 'Connect' - see screenshot below.

5. Enter your details in the dialog box that appears:
   - In the 'Username' field, type: (your username)@uhi.ac.uk - e.g. 9900112@uhi.ac.uk or EO00MP@uhi.ac.uk
   - In the 'Password' field, type your password.
6. Click 'OK' - a Windows Security Alert appears, Click on 'Details' - see screenshot below.
7. Verify that the Radius Server is ‘eduroam.uhi.ac.uk’, then click ‘Connect’ – see screenshot below.

8. To ensure your connection is secure, click on the network icon in the bottom right corner of your screen, right click ‘eduroam’ and click ‘Properties’
9. Select the ‘Security’ tab at the top of the window and next to where it says ‘Microsoft: Protected EAP (PEAP)’, click ‘settings’
10. Click OK and OK again.
11. Wait a moment whilst your computer connects to eduroam. The network icon in the system tray will indicate the signal strength.
How to configure Apple OSX device to use **eduroam**

1. From the menu bar in the top right hand corner, click on the network symbol – see screenshot below.
2. From the drop-down menu, check that 'Airport:On' shows. If it is not set to 'On', select 'Turn Airport On' – see screenshot below.

![Airport: Off, Turn Airport On, Open Network Preferences](image)

3. From the drop-down menu, select 'eduroam'.
4. In the 'Authenticating to network 'eduroam' box:
   - In the 'Your name' box, type: (your username)@uhi.ac.uk - e.g. 9900112@uhi.ac.uk or EO00MP@uhi.ac.uk
   - In the 'Your password' box, type your password.

![The Wi-Fi network "eduroam" requires WPA2 enterprise credentials.](image)

5. Click ‘Join’ and you will be asked to verify the certificate as below.

![Verify Certificate](image)

6. Click the 'Continue' button - you should connect to **eduroam**.

**CAUTION**: Only complete steps 6 to 13 if you are using Mac OSX 10.6 (Snow Leopard) or an earlier version of the operating system. If you are using Mac OSX 10.7 (Lion) or Mac OSX 10.8 (Mountain Lion), steps 6 to 13 are configured automatically.
To fine tune your *eduroam* connection:

7. From the menu bar, click the network symbol again.
8. From the drop-down menu, select 'Open Network Preference' - a 'Network' dialog box opens.
9. Click the 'Advanced' button - see screenshot below.

![Network dialog box screenshot](image)

10. From the top of the 'Airport' box, click the '802.1X' tab.
11. In the 'Authentication' section, check that 'PEAP' and 'TTLS' are ticked.
12. Click the 'Configure Trust' button.
13. From the 'Configure Trust' options:
   - Click the 'Servers' tab - see 1 on screenshot below.
   - Click on the '+' button - see 2 on screenshot below.

![Servers tab screenshot](image)

14. Click 'OK' - you should now be connected to *eduroam*.
How to configure Apple IPad device to use eduroam

1. From the 'Settings' menu, select the 'Wi-Fi' option (see screenshot below).

2. In 'Wi-Fi Networks', ensure that the 'Wi-Fi' option is set to 'On'.
3. From the list of networks, select 'eduroam'.
4. In the 'Username' field of the 'Enter Password' window, type: (your username)@uhi.ac.uk - e.g. 9900112@uhi.ac.uk or EO00MP@uhi.ac.uk
5. In the 'Password' field of the 'Enter Password' window, type your password then, on the keyboard, tap 'Join'.
6. Verify that the certificate is from 'eduroam.uhi.ac.uk', then tap 'Accept'.

NOTE: Checking the server name of the certificate verifies that you are connecting to the genuine eduroam service. Any other server name should not be accepted (you should not press 'Accept') and you should contact the UHI Helpdesk for further advice.

7. Wait while your iPad connects to eduroam - once connected, a tick appears beside the eduroam network.